

**102.4~614V**

# LiFePO4 Battery Pack

## FLH Series

### Features

- Multiple Protection with built-in smart BMS, breaker and fuse.
- LiFePO4: Higher safe performance and longer cycle life.
- Stack-mounted design, expandable up to 6 units in series.
- Compatible with leading inverter brands.
- Aerosol fire extinguishing system.
- Inverter interface protection.
- Up to 10-year long warranty.
- Configurable parameters and working mode via LCD touch screen.



**FLH96050SG1**



| Model                                       |                              | FLH96050SG1                            |            |            |          |            |
|---|------------------------------|--|------------|------------|----------|------------|
| Battery Type                                |                              | LiFePO4                                |            |            |          |            |
| Module Nominal Energy                       |                              | 5.12kWh                                |            |            |          |            |
| Module Nominal Capacity                     |                              | 50Ah                                   |            |            |          |            |
| Module Nominal Voltage                      |                              | 102.4V                                 |            |            |          |            |
| Number of Battery Modules                   |                              | 2(min)                                 | 3          | 4          | 5        | 6          |
| System Nominal Energy                       |                              | 10.24kWh                               | 15.36kWh   | 20.48kWh   | 25.6kWh  | 30.72kWh   |
| System Nominal Voltage                      |                              | 204.8V                                 | 307.2V     | 409.6V     | 512V     | 614.4V     |
| System Operating Voltage                    |                              | 192-230.4V                             | 288-345.6V | 384-460.8V | 480-576V | 576-691.2V |
| Recommend Charge/Discharge Current          |                              | 25A                                    | 25A        | 25A        | 25A      | 25A        |
| Max. Continuous Charge/Discharge Current[1] |                              | 50A                                    | 50A        | 50A        | 50A      | 50A        |
| Peak Charge/Discharge Current(15S)          |                              | 60A                                    | 60A        | 60A        | 60A      | 60A        |
| Depth of Discharge(DOD)                     |                              | ≥95%                                   |            |            |          |            |
| Display Type                                |                              | LED+LCD(Touch)                         |            |            |          |            |
| IP Rating of Enclosure                      |                              | IP65                                   |            |            |          |            |
| Working Temperature Range                   |                              | Charge: 0°C~55 °C                      |            |            |          |            |
|   |                              | Discharge: -20°C~55 °C                 |            |            |          |            |
| Storage Temperature Range                   |                              | 0°C~+35°C                              |            |            |          |            |
| Humidity                                    |                              | 5%~95%                                 |            |            |          |            |
| Altitude                                    |                              | ≤ 2000M                                |            |            |          |            |
| Communication                               |                              | RS485/CAN                              |            |            |          |            |
| Cycle Life[2]                               |                              | ≥ 6000 Cycles                          |            |            |          |            |
| Installation                                |                              | Stacking-Mounting/Floor-Mounting       |            |            |          |            |
| Protection                                  |                              | Built-in smart BMS, Breaker, Fuse      |            |            |          |            |
| Warranty Period                             |                              | 10 Years                               |            |            |          |            |
| Certification                               |                              | UN38.3、CB、CE-EMC、IEC 62619             |            |            |          |            |
| Control Module<br>FLH96050SCG1              | Net Weight                   | 12.5KG                                 |            |            |          |            |
|   | Gross Weight(with base)      | 24.5KG                                 |            |            |          |            |
|   | Product Dimension            | 600x385x200MM                          |            |            |          |            |
|   | Package Dimension(with base) | 712x497x352MM                          |            |            |          |            |
| Battery Module<br>FLH96050SMG1              | Battery Designation[3]       | IFpP/41/150/102/[(1P32S)NS]M/-10+50/90 |            |            |          |            |
|   | Net Weight                   | 57.5KG                                 |            |            |          |            |
|   | Gross Weight                 | 62KG                                   |            |            |          |            |
|   | Product Dimension            | 600x385x260MM                          |            |            |          |            |
|   | Package Dimension(with base) | 712x497x378MM                          |            |            |          |            |

[1] Max. Continuous Charge/Discharge Current is Affected by Temperature and SOC.

[2] Test Conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

[3] "N" Means the Number of Battery Packs Connected Series and Should not Exceed 6.(N≤6)

\*Product specifications may vary during continuous improvements. Please contact us for latest details.

\*Refer to Felicitysolar's Warranty Policy for applicable conditions.

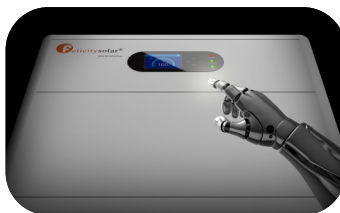
## Product Display



IP65 Protection Level



Aerosol Fire Extinguishing System



Real-time Status via  
LCD Display & SOC Display



Module Design for Easy Expansion

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